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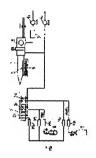
## (54) CHEMICAL VAPOR GROWTH METHOD

(57)Abstract:

(51)Int.CL

PURPOSE: To form a uniform layer controlled in an atomic layer order easily on a substrate having a large area by setting at least one kind of concentration of a raw material gas within a range, in which the rate of change of a growth rate in the relationship of the growth rate of the layer to one kind of raw-material gas concentration is not increased substantially, and supplying the raw material gas.

CONSTITUTION: The inside of a reaction tube 1 is exhausted by a rotary pump 42. A turbo-molecular pump 3 and a rotary pump 41 exhaust a load locking mechanism for sending a substrate crystal 2 into or out from the inside of the reaction tube 1. A numeral 6 represents a heater for heating the substrate crystal 2. A manifold 7 is connected at one end of the reaction tube 1. and flow-path changeover valves 51, 52, 53 are bonded with each branch section. A growth rate increases in approximately proportional to TEQ concentration within a range, in which the concentration of TEG is low, the growth rate is not proportional to TEQ concentration is higher, and the growth rate is kept approximately constant when TEG concentration exceeds 20 x 10-4 in terms of molar fraction.



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